

**= > IFW: Scan as Doc Code:      SRNT < =**  
**Doc Date:**

### **TC 3700 Inventor Search Program**

See attached inventor searches for applications and /or patents to help resolve questions of overlapping subject mater. These searches are provided an an initial examination aid: examiners should perform updated or expanded PALM or EAST inventors searches as appropriate.

---

**Serial Number:**

**10/830,186**

- 1) See attached printout of inventors listed in PALM**
  
- 2) See attached EAST Inventor Search  
Printout shows Inventor search terms**

Day : Monday  
Date: 6/18/2007

Time: 15:24:54

 **PALM INTRANET**

## Inventor Information for 10/830186

Inventor Name	City	State/Country
<u>FUKANUMA, TETSUHIKO</u>	KARIYA-SHI	JAPAN
<u>KAWAGUCHI, MASAHIRO</u>	KARIYA-SHI	JAPAN
<u>ODACHI, YASU HARU</u>	KARIYA-SHI	JAPAN
<u>TAKASHIMA, YOICHI</u>	KARIYA-SHI	JAPAN
<u>NAKAIMA, HIROYUKI</u>	KARIYA-SHI	JAPAN

[Appln Info](#)[Contents](#)[Petition Info](#)[Atty/Agent Info](#)[Continuity/Reexam](#)[Foreign I](#)

Search Another: Application#

 

or Patent#

 

PCT /

 /  

or PG PUBS #

 

Attorney Docket #

 

Bar Code #

 

To go back use Back button on your browser toolbar.

Back to [PALM](#) | [ASSIGNMENT](#) | [OASIS](#) | [Home page](#)

US 7210309 B2	20070501	Variable displacement compressor	62/469	417/372	Fukanuma; Tetsuhiko et al.
US 7207185 B2	20070424	Vehicle air conditioning apparatus	62/193	417/372; 62/469	Ota; Masaki et al.
US 7186096 B2	20070306	Swash plate type variable displacement compressor		417/422	Hibino; Sokichi et al.
US 7169287 B2	20070130	Decomposition apparatus and decomposition method	205/688	204/275.1; 204/288.6; 205/742; 588/303	Miura; Toshihiko et al.
US 7168359 B2	20070130	Swash plate compressor	92/71		Ota; Masaki et al.
US 7163615 B2	20070116	Method of treating substance to be degraded and its apparatus	205/688	204/157.3; 205/742; 210/748; 422/186.3; 423/245.1; 588/303; 588/306; 588/309	Kato; Kinya et al.
US 7140846 B2	20061128	Vacuum pump having main and sub pumps	417/245	417/423.1; 418/201.1	Yamamoto; Shinya et al.
US 7137267 B2	20061121	Apparatus for variable displacement type compressor	62/228.1	184/6.17; 417/13; 417/14; 417/222.2; 62/229	Murase; Masakazu et al.
US 7108837 B2	20060919	Polluted soil remediation apparatus and pollutant degrading apparatus	422/186.3	204/252	Kato; Kinya et al.
US 7083707 B2	20060801	Decomposition apparatus and decomposition method	204/228.6	204/275.1	Miura; Toshihiko et al.
US 7035980 B2	20060425	Effects of prefetching on I/O requests in an information	711/137	712/207	Kurokawa; Isamu et al.

		processing system			
US 7018514 B2	20060328	Method and apparatus for processing substances to be decomposed	204/157.3	588/313	Kato; Kinya et al.
US 6970310 B2	20051129	Disk control apparatus and its control method	360/31	360/53; 711/114; 714/6	Kawaguchi; Masahiro et al.
US 6940204 B2	20050906	Brushless motor and hermetic compressor assembly including the same motor	310/208	310/179; 310/254	Yamazaki; Akihiko et al.
US 6939621 B2	20050906	Plated copper alloy material and process for production thereof	428/647	205/176; 205/181; 205/182; 205/226; 428/648; 428/675; 428/929; 428/935; 439/886; 439/887	Hara; Toshihisa et al.
US 6934891 B2	20050823	Storage system having trace information fetching structure and method of fetching the same	714/48		Kawaguchi; Masahiro et al.
US 6912783 B2	20050705	Method of manufacturing a valve plate for compressor	29/888.02	29/890.13; 72/379.6; 72/703	Tanaka; Hirohiko et al.
US 6910344 B2	20050628	Compressor torque estimate device, engine controller and method of estimating compressor torque	62/228.3	417/12; 417/213; 417/34; 62/228.1; 62/228.5; 62/244	Matsubara; Ryo et al.
US 6893368 B2	20050517	Driving force transmission apparatus	474/70	60/698	Fujiwara; Hideki et al.
US 6874989 B2	20050405	Vacuum pump	415/119	415/177; 415/214.1; 417/310; 417/440; 417/572	Kuramoto; Satoru et al.

US 6870293 B2	20050322	Motor	310/199	310/156.47; 310/183; 310/254	Kataoka; Hisakazu et al.
US 6869272 B2	20050322	Electric compressor and control method therefor	417/44.1	417/42; 417/44.11	Odachi; Yasuharu et al.
US 6854023 B2	20050208	Data processing system and storage control device used therefor	710/9	710/36; 711/114; 711/170	Kurokawa; Isamu et al.
US 6848547 B1	20050201	Non-contact electric power supply system for a rail-guided vehicle	191/10	104/130.06; 104/45; 191/12R; 191/22R	Odachi; Yasuharu et al.
US 6836416 B2	20041228	Multi-output power conversion circuit	363/132		Ishihara; Koshiaki et al.
US 6833115 B2	20041221	Method of decomposing pollutants and apparatus for the same	422/121	210/748	Kato; Kinya et al.
US 6821094 B2	20041123	Hybrid power transmission system having first and second clutch mechanisms	417/223	310/92; 417/374	Murakami; Kazuo et al.
US 6800257 B1	20041005	Process for preparing trichloroacetic acid and apparatus for use in such process	422/186.3	210/150; 210/188; 210/192; 210/748; 210/750; 210/806	Kuriyama; Akira et al.
US 6786705 B2	20040907	Variable displacement compressor	417/274	417/222.2; 92/12.2; 92/13	Kurita; Hajime et al.
US 6759142 B2	20040706	Plated copper alloy material and process for production thereof	428/647	205/176; 205/181; 205/182; 205/226; 205/241; 428/648; 428/675; 428/929; 428/935	Hara; Toshihisa et al.
US	20040622	Data processing	710/9	710/36;	Kurokawa;

6754727 B2		system and storage control device used therefor		711/114; 711/170	Isamu et al.
US 6751971 B2	20040622	Variable displacement type compressor, air conditioner with the variable displacement type compressor, and method for controlling displacement in the variable displacement type compressor	62/228.5	62/229	Kawaguchi; Masahiro et al.
US 6725681 B2	20040427	Air conditioner	62/228.5	417/222.2; 417/223; 417/374; 417/45; 62/133; 62/244	Adaniya; Taku et al.
US 6719538 B2	20040413	Rotating apparatus	417/223	417/362; 417/374	Ota; Masaki et al.
US 6719537 B2	20040413	Compressor and pulley for compressor	417/223	417/269	Kawaguchi; Masahiro et al.
US 6712589 B2	20040330	Scroll compressors	417/410.5	418/188; 418/55.3; 418/55.5; 418/57	Mori; Tatsushi et al.
US 6711037 B2	20040323	Power supply apparatus	363/98	363/132	Odachi; Yasuharu et al.
US 6707204 B2	20040316	Rotational unit	310/102R	417/16; 417/362	Odachi; Yasuharu et al.
US 6705444 B2	20040316	One-way clutch unit	192/45	192/110B	Fujiwara; Hideki et al.
US 6705102 B2	20040316	Vehicular air-conditioner	62/228.1	417/222.2; 417/42; 417/44.11	Adaniya; Taku et al.
US 6699370	20040302	Process and system for decomposing	204/157.3	204/158.2; 96/243;	Kuriyama; Akira et al.

B2		pollutants		96/256	
US 6688864 B2	20040210	Oil leak prevention structure of vacuum pump	418/104	277/417; 277/424; 418/206.6	Yamamoto; Shinya et al.
US 6688863 B2	20040210	Oil leak prevention structure of vacuum pump	418/104	418/206.6; 418/206.8; 418/88	Hoshino; Nobuaki et al.
US 6688852 B2	20040210	Means for restricting drive shaft movement for a piston type compressor	417/222.2	92/12.2	Uneyama; Hiroshi et al.
US 6679078 B2	20040120	Variable displacement compressors and methods for controlling the same	62/228.3	417/222.2; 62/229	Yoshida; Hiroyuki et al.
US 6672844 B2	20040106	Apparatus and method for controlling variable displacement compressor	417/222.2	417/213; 62/228.3; 91/504	Fukanuma; Tetsuhiko et al.
US 6670784 B2	20031230	Motor Apparatus and control method therefor	318/700	318/138; 318/254; 318/439; 318/618	Odachi; Yasuharu et al.
US 6663367 B2	20031216	Shaft seal structure of vacuum pumps	418/104	277/400; 277/430; 418/206.6; 418/88	Yamamoto; Shinya et al.
US 6663365 B2	20031216	Scroll type compressor	418/55.2	418/178; 418/55.4	Mori; Tatsushi et al.
US 6663355 B2	20031216	Variable displacement compressor	417/222.2	417/269	Kubo; Hiroshi et al.
US 6662580 B2	20031216	Air-conditioning system for vehicle and its control method	62/228.1	123/339.17; 417/374; 417/411; 417/42; 62/230	Suitou; Ken et al.
US 6659747 B2	20031209	Shaft seal structure of vacuum pumps	418/104	418/141; 418/206.6; 418/88	Yamamoto; Shinya et al.
US 6659733	20031209	Variable displacement	417/222.1		Takenaka; Kenji et al.

B1		compressor			
US 6659227 B2	20031209	Oil leak prevention structure for vacuum pump	184/6.16	277/303	Yamamoto; Shinya et al.
US 6640562 B2	20031104	Air-conditioning system for vehicle and its control method	62/133	62/228.5; 62/236; 62/323.3	Odachi; Yasuharu et al.
US 6637223 B2	20031028	Control apparatus for variable displacement compressor	62/158	417/222.2; 62/228.3	Ota; Masaki et al.
US 6619929 B2	20030916	Rotational apparatus	417/223	310/113; 417/319; 417/374	Adaniya; Taku et al.
US 6617727 B2	20030909	Vehicular rotational apparatus	310/75R	310/76; 310/78; 310/92; 417/374; 62/133	Iwasa; Jiro et al.
US 6599431 B2	20030729	Purifying apparatus for contaminated water and ground water and method thereof	210/748	204/232; 204/554; 210/150; 210/188; 210/192; 210/218; 210/806	Kawaguchi; Masahiro et al.
US 6589020 B2	20030708	Control valve for variable displacement compressor	417/222.2	62/228.3; 62/228.5	Kimura; Kazuya et al.
US 6584886 B2	20030701	Compressor	92/71	92/155	Sugiura; Manabu et al.
US 6582200 B2	20030624	Swash plate compressor having shoes made of a magnesium-based material	417/222.2	91/499; 92/71	Kato; Takayuki et al.
US 6581507 B2	20030624	Single-headed piston type swash plate compressor	92/71	92/153	Mizutani; Hideki et al.
US 6579071 B1	20030617	Structure for suppressing pulsation in compressor	417/269	181/403; 417/312; 417/540	Tarutani; Tomoji et al.



US 6578372 B2	20030617	Apparatus and method for controlling variable displacement compressor	62/115	62/228.3; 62/228.5	Fukanuma; Tetsuhiko et al.
US 6572341 B2	20030603	Variable displacement type compressor with suction control valve	417/213	251/129.02; 251/129.15; 417/270	Kimura; Kazuya et al.
US 6558133 B2	20030506	Variable displacement compressor	417/222.2	417/269; 92/71	Fukanuma; Tetsuhiko et al.
US 6557360 B2	20030506	Compressor torque computing method, air-conditioning system and engine control apparatus	62/133	62/229	Matsubara; Ryo et al.
US 6554594 B2	20030429	Shaft seal structure for vacuum pump	418/104	418/206.6; 418/79	Yamamoto; Shinya et al.
US 6544016 B2	20030408	Scroll compressors	418/55.1	418/188; 418/270	Gennami; Hiroyuki et al.
US 6538170 B2	20030325	Polluted soil remediation apparatus, polluted soil remediation method, pollutant degrading apparatus and pollutant degrading method	204/158.2	204/157.3; 250/253; 405/128.45; 588/306; 588/320; 588/406	Kato; Kinya et al.
US 6537037 B2	20030325	Variable displacement compressor and air conditioning apparatus	417/213	137/487.5; 417/270; 62/228.5	Ota; Masaki et al.
US 6532860 B2	20030318	Piston type compressor and inner mold for making the same	92/71		Ota; Masaki et al.
US 6532858 B2	20030318	Electric compressor	92/71	417/410.1; 417/410.3	Fujii; Toshiro et al.
US 6526772 B2	20030304	Apparatus and method for controlling electric	62/228.4	62/229	Suitou; Ken et al.

		compressor			
US 6524079 B1	20030225	Alignment means for the swash plate of a variable-capacity swash-plate type compressor	417/269	91/499; 92/12.2	Kimura; Kazuya et al.
US 6524077 B2	20030225	Control valve for variable displacement compressor	417/222.2	62/228.3; 62/228.5	Suitou; Ken et al.
US 6519960 B2	20030218	Air conditioner	62/228.3	417/222.2; 73/861.66	Suitou; Ken et al.
US 6517321 B1	20030211	Variable displacement compressor	417/222.1	417/222.2	Takenaka; Kenji et al.
US 6514049 B2	20030204	Compressor control valve with two independently operated check valves, wherein the crank chamber pressure is the control pressure, and the monitor pressure is the suction pressure	417/222.2	137/601.13; 137/601.14	Mera; Minoru et al. □
US 6514048 B2	20030204	External control variable displacement compressor	417/222.2	417/222.1; 417/269	Makino; Yoshihiro et al.
US 6511295 B2	20030128	Compressors	417/44.1	62/259.2	Suitou; Ken et al.
US 6510699 B2	20030128	Displacement control apparatus for variable displacement compressor	62/133	236/79; 417/222.2	Ota; Masaki et al.
US 6508071 B2	20030121	Air conditioner and displacement control valve for variable displacement compressor	62/228.3	417/222.2; 73/861.53	Ota; Masaki et al.
US 6505473	20030114	Vehicle air conditioner and	62/133	62/228.3	Suitou; Ken et al.

B2		method for controlling vehicle air conditioner			
US 6484520 B2	20021126	Displacement control apparatus for variable displacement compressor, displacement control method and compressor module	62/133	62/228.3; 62/228.5	Kawaguchi; Masahiro et al.
US 6481976 B2	20021119	Control valve and variable capacity type compressor having control valve	417/222.2	137/454.6; 251/61.5; 417/199.1; 417/222.1; 417/269; 417/295	Kimura; Kazuya et al.
US 6481227 B1	20021119	Air conditioner	62/209	62/228.3	Ota; Masaki et al.
US 6471024 B2	20021029	Torque limiting mechanism	192/56.5	192/53.6	Ota; Masaki et al.
US 6464481 B2	20021015	Scroll compressors	418/55.6	417/369; 418/188; 418/55.1; 418/55.5; 418/57	Tsubai; Shinji et al.
US 6453685 B2	20020924	Control apparatus and control method for variable displacement compressor	62/115	62/227; 62/228.3	Ota; Masaki et al.
US 6449971 B1	20020917	Air-conditioning system	62/228.3	417/222.2; 62/160	Kimura; Kazuya et al.
US 6449965 B1	20020917	Vehicle air conditioner	62/133	62/158; 62/229; 62/323.4	Murao; Kazushige et al.
US 6447258 B2	20020910	Control valve for variable displacement compressor	417/222.2	137/565.16	Ota; Masaki et al.
US 6434956 B1	20020820	Control valve and method for controlling an air-	62/133	417/222.2; 62/228.3	Ota; Masaki et al.

		conditioning system			
US 6425254 B1	20020730	Control device for variable displacement compressor	62/133	62/228.3	Ota; Masaki et al.
US 6422830 B1	20020723	Fluid machine	417/222.2		Yamada; Kiyohiro et al.
US 6419467 B1	20020716	Structure for suction valve of piston type compressor	417/504	137/855; 417/560; 417/571	Murase; Muneharu et al.
US 6416297 B1	20020709	Stopping means for preventing movement of the drive shaft of a variable displacement compressor	417/222.2	417/365	Kawaguchi; Masahiro et al.
US 6412294 B2	20020702	Control device of variable displacement compressor	62/228.3	62/229; 62/323.1	Kimura; Kazuya et al.
US 6398516 B1	20020604	Variable displacement compressors and control valves for variable displacement compressors	417/222.2		Kawaguchi; Masahiro et al.
US 6395533 B1	20020528	Recovering microorganisms from soil by suspending soil in a citrate buffer	435/252.1	435/243; 435/261; 435/262.5; 435/264; 435/270; 435/822	Kawaguchi; Masahiro et al.
US 6393849 B1	20020528	Air-conditioning apparatus and control procedure for variable displacement compressor	62/133	62/209; 62/215; 62/228.1	Takenaka; Kenji et al.
US 6390784 B1	20020521	Solenoid protector for a variable displacement compressor	417/222.2	417/270	Kawaguchi; Masahiro et al.
US	20020521	Controller for	62/115	417/222.2;	Ota; Masaki et

6389824 B2		variable displacement compressor		62/227; 62/417	al.
US 6386834 B1	20020514	Control valve of displacement variable compressor	417/222.2		Kimura; Kazuya et al.
US 6385979 B2	20020514	Displacement control apparatus and method for variable displacement compressor	62/115	62/133; 62/209; 62/228.3	Ota; Masaki et al.
US 6382926 B2	20020507	Control valve in variable displacement compressor	417/222.2		Ota; Masaki et al.
US 6379121 B1	20020430	Suction valve in variable displacement compressor	417/222.2	417/269	Ota; Masaki et al.
US D456029 S	20020423	Compressor for a vehicle air conditioner	D15/9		Kawaguchi; Masahiro et al.
US 6371734 B1	20020416	Control valve for variable displacement compressor	417/222.2	92/12.2	Ota; Masaki et al.
US 6370967 B1	20020416	Torque sensor with joint means for producing a consistent magnetic effect	73/862.333	73/862; 73/862.08; 73/862.331	Kouketsu; Yoshitaka et al.
US 6368069 B1	20020409	Variable displacement compressor	417/222.2	417/269; 92/71	Fukanuma; Tetsuhiko et al.
US 6368019 B2	20020409	Method for soil remediation	405/128.45	405/129.6; 588/249	Sugawa; Etsuko et al.
US D454889 S	20020326	Compressor for a vehicle air conditioner	D15/9		Kawaguchi; Masahiro et al.
US 6361283 B1	20020326	Displacement control valve	417/222.2		Ota; Masaki et al.
US 6356825	20020312	Air-conditioning system for	701/36	62/133	Takenaka; Kenji et al.

B1		automobiles and its control method			
US 6354811 B1	20020312	Control valve for variable displacement compressors	417/222.2	137/596.17; 417/270	Ota; Masaki et al.
US 6352416 B1	20020305	Device and method for controlling displacement of variable displacement compressor	417/222.2		Ota; Masaki et al.
US 6351053 B1	20020226	Reluctance motors	310/216	310/168; 310/262; 310/269; 318/254; 318/701	Minoshima; Norimoto et al.
US 6338613 B1	20020115	Piston-type compressor	417/222.2	417/269; 92/71	Okuno; Takuya et al.
US 6336335 B1	20020108	Engine control apparatus of vehicle having air conditioner	62/133	123/198R; 123/339.17; 62/228.3; 62/229; 62/243	Ota; Masaki et al.
US 6334915 B1	20020101	Copper alloy sheet for electronic parts	148/435	420/485; 420/486; 420/487; 420/488	Ogura; Tetsuzo et al.
US D452254 S	20011218	Compressor for a vehicle air conditioner	D15/9		Kawaguchi; Masahiro et al.
US 6321545 B1	20011127	Control apparatus for variable displacement type compressor	62/133	62/228.3; 62/229	Ota; Masaki et al.
US 6319706 B1	20011120	Process and apparatus for remedying polluted media	435/293.1	435/293.2; 435/297.4	Kawaguchi; Masahiro et al.
US 6318971 B1	20011120	Variable displacement compressor	417/222.2		Ota; Masaki et al.
US 6290470 B1	20010918	Shaft sealing assembly and compressor	417/269	277/565; 417/222.1; 92/71	Okuno; Takuya et al.

		incorporating the same			
US 6283722 B1	20010904	Variable displacement type compressor	417/222.2	92/12.2	Takenaka; Kenji et al.
US 6267563 B1	20010731	Variable capacity type compressor with inclined capacity control valve	417/222.2		Yamada; Kiyohiro et al.
US 6260422 B1	20010717	Torque sensor and rotation restrictor for stator	73/862.334		Odachi; Yasuharu et al.
US 6254356 B1	20010703	Fitting structure for controlling valve in variable capacity compressor	417/222.2	137/454.6; 137/625.65; 417/454	Yamada; Kiyohiro et al.
US 6250891 B1	20010626	Variable displacement compressor having displacement controller	417/222.2	417/269	Kawaguchi; Masahiro et al.
US 6242477 B1	20010605	Pharmaceutical compositions containing pyrylium compounds, pyrylium salts and process for manufacturing a medicament containing the aforesaid compounds	514/432	514/451; 514/460; 607/88; 607/94	Okamoto; Tadashi et al.
US 6237428 B1	20010529	Magnetostrictive torque sensor	73/862.333		Odachi; Yasuharu et al.
US 6234904 B1	20010522	Drive power transmission apparatus	464/30	192/56.5; 417/223	Kawaguchi; Masahiro et al.
US 6227812 B1	20010508	Refrigerant circuit and compressor	417/222.2	417/307; 417/440; 62/498	Kawaguchi; Masahiro et al.
US D441377 S	20010501	Compressor for a vehicle air conditioner	D15/9		Kawaguchi; Masahiro et al.
US	20010501	Device and method	417/222.2	251/129.13	Fukanuma;

6224348 B1		for controlling displacement of variable displacement compressor			Tetsuhiko et al.
US 6213727 B1	20010410	Variable displacement compressor and outlet control valve	417/222.2	417/569	Kawaguchi; Masahiro
US 6203284 B1	20010320	Valve arrangement at the discharge chamber of a variable displacement compressor	417/222.2	417/269; 417/270	Kawaguchi; Masahiro et al.
US 6202301 B1	20010320	Method for manufacturing piston of variable-capacity type compressor	29/888.02		Kawaguchi; Masahiro
US 6200105 B1	20010313	Control valve in variable displacement compressor and method of manufacture	417/222.2	417/213	Kawaguchi; Masahiro et al.
US 6189434 B1	20010220	Single-headed piston type swash-plate-operated compressor and a method of producing a swash plate	92/71	92/155	Kawaguchi; Masahiro et al.
US 6185312 B1	20010206	Method for embedding and reading watermark-information in digital form, and apparatus thereof	382/100	283/113; 380/54; 382/232; 382/251	Nakamura; Takao et al.
US 6183885 B1	20010206	Fitting-type connection terminal	428/647	428/648; 428/929; 439/886	Nakamura; Atsushi et al.
US 6164926 A	20001226	Variable displacement compressor	417/222.2	137/51; 137/56	Kawaguchi; Masahiro
US 6149398	20001121	Variable capacity piston- operated	417/222.2	184/6.17	Fukanuma; Tetsuhiko et



A		refrigerant compressor with an oil separating means			al.
US 6146107 A	20001114	Variable displacement compressor	417/222.2	417/222.1; 92/12.2	Kawaguchi; Masahiro et al.
US 6146106 A	20001114	Electromagnetic valve	417/222.2	251/129.18; 251/61.5	Suitou; Ken et al.
US 6144275 A	20001107	Solenoid actuator	335/262	251/129.15	Hirata; Ichiro et al.
US 6142745 A	20001107	Piston type variable displacement compressor	417/222.2		Kawaguchi; Masahiro et al.
US 6142445 A	20001107	Electromagnetic control valve	251/129.15	251/323	Kawaguchi; Masahiro et al.
US 6135722 A	20001024	Positional relationship of a bearing in the shutoff member of a variable displacement compressor	417/222.2	417/270	Kawaguchi; Masahiro et al.
US 6126406 A	20001003	Variable displacement compressor	417/222.2		Kawaguchi; Masahiro et al.
US 6126405 A	20001003	Undulating current supplying means for the solenoid of a displacement control valve in a variable displacement compressor	417/222.2	417/270; 417/278; 62/228.5	Kawaguchi; Masahiro et al.
US 6124342 A	20000926	Pharmaceutical compositions containing pyrylium compounds, pyrylium salts and process for manufacturing a medicament containing the aforesaid compounds	514/432		Okamoto; Tadashi et al.

US 6123514 A	20000926	Sealing structure for compressors	417/222.2	277/559; 277/560; 277/564; 277/565	Kawaguchi; Masahiro et al.
US 6109883 A	20000829	Coupling construction of compressor housing and method for manufacturing compressor	417/269		Kawaguchi; Masahiro et al.
US 6109405 A	20000829	Non-contacting power supply system for rail-guided vehicle	191/10		Odachi; Yasuharu et al.
US 6102668 A	20000815	Electromagnetic control valve	417/222.2		Kawaguchi; Masahiro et al.
US 6094995 A	20000801	Torque sensor using power measurement	73/862.333	73/862.193	Odachi; Yasuharu et al.
US 6089362 A	20000718	Non-contact power supply device and method for conveyor carriage	191/10	191/2	Takasan; Masaki et al.
US 6077047 A	20000620	Variable displacement compressor	417/222.1	417/269	Nagai; Hiroyuki et al.
US 6076449 A	20000620	Variable displacement compressor	92/12.2	417/269; 92/57; 92/71	Kawaguchi; Masahiro et al.
US 6074141 A	20000613	Scroll compressor having grooves for seal members	409/132	29/888.02; 29/888.022; 409/131; 418/55.2; 418/55.4	Ishikawa; Kimihiro et al.
US 6073739 A	20000613	Rail segments	191/10	104/106; 191/44.1; 191/45A	Takasan; Masaki et al.
US 6065943 A	20000523	Refrigerant compressor having improved drive power transmission unit	417/362	474/94	Suito; Ken et al.
US 6062823 A	20000516	Control valve in variable displacement	417/222.2	251/129.02; 251/129.07; 251/129.15	Kawaguchi; Masahiro et al.

		compressor			
US 6059538 A	20000509	Control valve for variable displacement compressor	417/222.2	251/337; 251/64	Kawaguchi; Masahiro et al.
US 6056513 A	20000502	Variable displacement compressor and method for controlling the same	417/222.1	417/222.2; 417/270	Kawaguchi; Masahiro et al.
US 6048178 A	20000411	Compressor	417/222.2	417/269; 417/569	Kawaguchi; Masahiro et al.
US 6036447 A	20000314	Control valve having a ground connection for the actuator coil	417/222.2	251/129.02; 251/129.15; 335/28; 439/92	Kawaguchi; Masahiro et al.
US 6033189 A	20000307	Control valve	417/222.2	251/129.02; 251/129.15; 335/255; 439/607	Miura; Shintaro et al.
US 6024008 A	20000215	Variable displacement compressor, swash plate, and method for hardening swash plate	92/12.2	91/505; 92/71	Kawaguchi; Masahiro et al.
US 6022961 A	20000208	Fluorescent stain containing pyrylium salt and fluorescent staining method of biological sample	536/24.3	435/6; 536/24.31; 536/24.32; 536/24.33; 549/13; 549/28; 549/356	Yamamoto; Nobuko et al.
US 6010312 A	20000104	Control valve unit with independently operable valve mechanisms for variable displacement compressor	417/222.2		Suitou; Ken et al.
US 6005475 A	19991221	Communication method and apparatus for conveyor carriages	340/310.11	104/88.03; 191/2; 246/166.1; 246/167R; 246/187R;	Takasan; Masaki et al.

				246/192R; 340/310.17; 340/933; 340/941; 455/523	
US 6004772 A	19991221	Oxygenase expressing microorganism strain JM1 (FERM BP-5352) for degrading organic compounds without an inducer	435/34	210/601; 435/252.1; 435/262; 435/262.5; 435/281; 435/29; 435/308.1; 435/4; 435/821; 435/822; 435/843; 435/975	Imamura; Takeshi et al.
US 5983076 A	19991109	Antenna unit for communication system for movable body	455/41.1		Takasan; Masaki et al.
US 5975859 A	19991102	Control valve in variable displacement compressor and its assembling method	417/222.2	417/213	Kawaguchi; Masahiro et al.
US 5964578 A	19991012	Control valve in variable displacement compressor	417/222.2		Suitou; Ken et al.
US 5941353 A	19990824	Non-contact type electric power supplying system for vehicle	191/10		Minoshima; Norimoto et al.
US 5939256 A	19990817	Detection of nucleic acid hybrid variation which interacts with double helix or with second reagent through double helix by charge transfer and probe for hybridizing with target nucleic acid	435/6	436/501	Yamamoto; Nobuko et al.
US 5938151	19990817	Communication systems employing	246/194	104/297; 191/10	Takasan; Masaki et al.

A		power cables for conveyor carriages			
US 5937977 A	19990817	Non-contact power supply for conveyor carriages	191/10		Takasan; Masaki et al.
US 5927657 A	19990727	Antenna mounting structure for movable member conveying system	246/194	104/297; 104/88.03; 191/10	Takasan; Masaki et al.
US 5920985 A	19990713	Method of manufacturing a movable scroll element	29/888.022	29/558; 418/55.2	Fukanuma; Tetsuhiko et al.
US 5915928 A	19990629	Compressor having a swash plate with a lubrication hole	417/269	92/71	Murase; Masakazu et al.
US 5906932 A	19990525	Process for soil remediation and apparatus used therefor	435/262.5	210/605; 405/128.5; 435/266; 435/289.1; 435/309.1	Kuriyama; Akira et al.
US 5893706 A	19990413	Cooling structure for compressor	417/373	184/104.1; 184/6.17; 184/6.22; 416/60; 417/269; 417/362	Kawaguchi; Masahiro et al.
US 5893437 A	19990413	Non-contact electric power supplying system for a vehicle	191/10		Odachi; Yasuharu et al.
US 5890878 A	19990406	Valve structure in compressor	417/222.2	137/855; 417/269; 417/569	Murase; Masakazu et al.
US 5890876 A	19990406	Control valve in variable displacement compressor	417/213	137/907; 251/129.02; 251/61.5; 417/222.2	Suito; Ken et al.
US 5886619 A	19990323	Communication method in movable body operating system	370/276	104/297; 191/33R; 191/50; 246/2R; 246/4; 307/2; 455/402	Takasan; Masaki et al.
US 5882180	19990316	Oil mist filter in a variable	417/222.2	417/313; 417/423.9;	Kawaguchi; Masahiro et al.

A		displacement compressor		92/78	
US 5880379 A	19990309	Torque sensor installing method	73/862.335	73/862.333	Tanaka; Katsufumi et al.
US 5871337 A	19990216	Swash-plate compressor with leakage passages through the discharge valves of the cylinders	417/222.2	417/269; 417/295; 417/571	Fukanuma; Tetsuhiko et al.
US 5865604 A	19990202	Displacement controlling structure for clutchless variable displacement compressor	417/222.2		Kawaguchi; Masahiro et al.
US 5855261 A	19990105	Non-contact electric power supplying system for vehicle	191/10	318/16; 336/84M	Odachi; Yasuharu et al.
US 5842835 A	19981201	Variable displacement compressor and its assembling method	417/222.2	417/270	Kawaguchi; Masahiro et al.
US 5842834 A	19981201	Swash plate type compressor employing single-headed pistons	417/222.2		Kawaguchi; Masahiro et al.
US 5836748 A	19981117	Swash plate type variable displacement compressor utilizing a spool for controlling the inclination	417/222.2	417/269	Kawaguchi; Masahiro et al.
US 5835939 A	19981110	Data transfer control method and apparatus for external storage subsystem adapted to perform erasing after writing	711/113	711/112; 711/114; 711/118; 711/154	Kurokawa; Isamu et al.
US 5831180 A	19981103	Torque sensing and strain detecting device	73/862.333	73/779	Tanaka; Katsufumi et al.
US	19981006	Compressor piston	92/154	184/18;	Takenaka;

5816134 A		and piston type compressor		184/6.17; 92/158; 92/159	Kenji et al.
US 5808537 A	19980915	Inductor core for transferring electric power to a conveyor carriage	336/233	336/129; 336/130; 336/212; 336/234	Kondo; Tadashi et al.
US 5807088 A	19980915	Scroll type compressor with chamfered scroll wall	418/55.2	418/55.4	Fukanuma; Tetsuhiko et al.
US 5807076 A	19980915	Lubrication method and lubrication controlling apparatus for clutchless compressor	417/228	184/6.17; 184/6.3; 417/222.2; 417/53; 92/154	Kawaguchi; Masahiro et al.
US 5797730 A	19980825	Swash plate type compressor	417/222.2	417/295	Kawaguchi; Masahiro et al.
US 5785502 A	19980728	Control apparatus for variable displacement compressor	417/222.2	417/222.1; 417/270	Ota; Masaki et al.
US 5770452 A	19980623	Quantitative determination of lipid, and of co- existing two compounds	436/86	436/13; 436/15; 436/164; 436/71; 436/8	Yamamoto; Nobuko et al.
US 5762476 A	19980609	Variable capacity single-headed piston refrigement compressor	417/222.2	417/295	Ota; Masaki et al.
US 5753466 A	19980519	Method for recovering DNA from soil	435/91.1	435/259; 435/34; 435/6; 435/9; 536/127; 536/22.1; 536/23.1; 536/25.4	Yano; Tetsuya et al.
US 5741122 A	19980421	Variable displacement compressor having a spool with a coating layer	417/222.2		Yokono; Tomohiko et al.
US	19980203	Clutchless piston	417/222.2	417/295	Kawaguchi;

5713725 A		type variable displacement compressor			Masahiro et al.
US 5711659 A	19980127	Method of manufacturing a movable scroll element and a scroll element produced by the same method	418/55.2	29/888.022	Fukanuma; Tetsuhiko et al.
US 5705346 A	19980106	Method for detecting a target nucleic acid by using an interaction of two kinds of reagents	435/6	435/810; 436/501; 536/23.1; 536/24.1; 536/24.3; 536/24.31; 536/24.32; 536/24.33	Okamoto; Tadashi et al.
US 5703461 A	19971230	Inductive coupler for electric vehicle charger	320/108	320/109; 336/66	Minoshima; Norimoto et al.
US 5703298 A	19971230	Magnetostrictive torque sensing device	73/862.333	73/862.334	Odachi; Yasuharu et al.
US 5681150 A	19971028	Piston type variable displacement compressor	417/222.2	417/295	Kawaguchi; Masahiro et al.
US 5670315 A	19970923	Nucleic acid determination employing pyrylium dye	435/6	435/288.2; 435/288.4; 435/288.5; 435/91.2	Yamamoto; Nobuko et al.
US 5661391 A	19970826	Apparatus for charging a propulsion battery of an electrically powered vehicle	320/108	320/109; 336/DIG.2	Ito; Makoto et al.
US 5641278 A	19970624	Scroll compressor	418/55.2	418/55.1	Tsumagari; Yuichi et al.
US 5639223 A	19970617	Compressor with cylindrical cam surface	417/269	74/55; 74/56; 74/567; 74/569	Murakami; Kazuo et al.
US 5636973 A	19970610	Crank chamber pressure controlled swash plate compressor with	417/222.2	417/298	Sonobe; Masanori et al.



		suction passage opening delay during initial load condition			
US 5634781 A	19970603	Scroll-type compressor having bolted housings	418/55.1	29/428; 29/888.022	Yoshida; Tetsuo et al.
US 5634775 A	19970603	Wave cam type compressor	417/269	74/56; 91/502	Murakami; Kazuo et al.
US 5624798 A	19970429	Detection method of nucleic acid by use of fluorescent pyrylium stain in intercalation into nucleic acids	435/6	549/13; 549/28; 549/356; 549/424; 8/506	Yamamoto; Nobuko et al.
US 5624240 A	19970429	Piston type variable displacement compressor	417/222.2		Kawaguchi; Masahiro et al.
US 5617003 A	19970401	Method and apparatus for charging a battery of an electric vehicle	320/108	320/109	Odachi; Yasuharu et al.
US 5616008 A	19970401	Variable displacement compressor	417/222.2		Yokono; Tomohiko et al.
US 5603610 A	19970218	Clutchless piston type variable displacement compressor	417/222.2	417/295	Kawaguchi; Masahiro et al.
US 5597297 A	19970128	Scroll type compressor	418/55.1	418/151	Yamamoto; Shinya et al.
US 5586870 A	19961224	Bearing structure used in a compressor	417/222.2	417/269; 417/270; 417/362; 91/499	Kawaguchi; Masahiro et al.
US 5584677 A	19961217	Scroll compressor having a bevelled facing section	418/55.2	418/178	Ishikawa; Kimihiro et al.
US 5584670 A	19961217	Piston type variable displacement compressor	417/222.2	417/295	Kawaguchi; Masahiro et al.
US 5580228 A	19961203	Scroll compressor having grooves for seal members	418/55.2	29/888.022; 418/142; 418/55.4	Ishikawa; Kimihiro et al.
US	19961126	Piston type variable	417/222.2	417/295	Kawaguchi;

5577894 A		displacement compressor			Masahiro et al.
US 5568386 A	19961022	Automated correction control system and method for characteristics of throttle position sensor	701/51	123/361; 477/121	Sugiura; Masayuki et al.
US 5567137 A	19961022	Scroll compressor with shaft seal lubrication	418/15	418/100; 418/55.4; 418/55.5; 418/55.6	Nakashima; Masafumi et al.
US 5562426 A	19961008	Scroll type refrigerant compressor	417/310	417/295; 417/440	Watanabe; Yasushi et al.
US 5547354 A	19960820	Scroll compressor balancing	418/55.5	418/151; 418/57	Shimizu; Izuru et al.
US 5547353 A	19960820	Scroll type compressor with elliptical spiral element	418/55.2		Yamaguchi; Tetsuya et al.
US 5547346 A	19960820	Variable displacement compressor	417/222.2	92/12.2	Kanzaki; Shigeki et al.
US 5545521 A	19960813	Method for detecting bioindividuals by use of nonnatural type nucleic acid probe	435/5	435/6; 435/91.1; 436/164; 436/172; 436/800; 436/94; 536/23.1; 536/23.7; 536/23.72; 536/23.74; 536/24.32	Okamoto; Tadashi et al.
US 5545020 A	19960813	Scroll type compressor with spiral seals	418/55.4	418/55.2; 418/55.3	Fukanuma; Tetsuhiko et al.
US 5540571 A	19960730	Scroll-type compressor having bolted housings	418/55.1	29/428; 29/888.022	Yoshida; Tetsuo et al.
US 5531579 A	19960702	Scroll type compressor	418/55.2	29/888.022	Fukanuma; Tetsuhiko et al.
US	19960702	Scroll compressor	418/55.1	418/104;	Takemoto;

5531578 A				418/98	Tsuyoshi et al.
US 5529461 A	19960625	Piston type variable displacement compressor	417/222.2	417/269	Kawaguchi; Masahiro et al.
US 5520524 A	19960528	Scroll-type compressor with reduced start-up orbiting radius	418/14	418/55.5; 418/57	Takemoto; Tsuyoshi et al.
US 5501584 A	19960326	Scroll type compressor having a passage from the suction chamber to a compression pocket	418/15	418/55.1; 418/55.2	Yamamoto; Shinya et al.
US 5498140 A	19960312	Variable displacement compressor	417/199.1	417/222.1; 417/272; 417/310; 92/12.2	Kawaguchi; Masahiro et al.
US 5491093 A	19960213	Quantitative determination of lipid, and of co-existing two compounds	436/71	436/164; 436/166	Yamamoto; Nobuko et al.
US 5477773 A	19951226	Wave plate type compressor	92/71	417/269; 74/60; 92/138	Murakami; Kazuo et al.
US 5470213 A	19951128	Scroll type compressor having a ring for compressive force transmission and orbit determination	418/55.2	418/178; 418/179; 418/55.3; 464/102	Iguchi; Masao et al.
US 5462418 A	19951031	Scroll type compressor equipped with mechanism for receiving reaction force of compressed gas	418/55.3	464/102	Shimizu; Izuru et al.
US 5458472 A	19951017	Scroll type compressor having thrust regulation on the eccentric shaft	418/55.5	418/151; 418/57	Kobayashi; Hisao et al.
US 5456584 A	19951010	Scroll type compressor with refrigerant gas	418/55.1	418/151; 418/94	Isomura; Kenji et al.

		passage in balance weight			
US 5452647 A	19950926	Wave plate type compressor	92/71	74/56; 74/57	Murakami; Kazuo et al.
US 5437746 A	19950801	Aluminum alloy sheet for discs having good platability	148/439	148/415; 148/417; 148/418; 148/440; 148/523; 148/551; 148/552; 148/691; 148/692; 148/695; 420/532; 420/533; 420/541; 420/547; 420/550; 428/650; 428/652; 428/687; 428/928	Usui; Eiki et al.
US 5437543 A	19950801	Scroll type refrigerant compressor with means for improving airtight sealing of compression chambers	418/55.5	418/151; 418/57	Goto; Kunifumi et al.
US 5427513 A	19950627	Scroll type compressor having a displaced discharge port	418/55.2	418/142; 418/55.4	Yamada; Kiyohiro et al.
US 5427510 A	19950627	Scroll type compressor having eccentric inclined driving means	418/14	418/55.5; 418/57	Hisanaga; Shigeru et al.
US 5419690 A	19950530	Scroll type refrigerant compressor with means for preventing mechanical crack of the housing	418/55.1	418/178; 418/179; 418/55.2	Goto; Kunifumi et al.
US	19950307	Scroll type	418/55.2	418/100;	Kuroki;

5395223 A		compressor having communication passage means with lubricating arrangement associated therewith		418/55.6	Kazuhiro et al.
US 5389453 A	19950214	Aluminum alloy material having a surface of excellent zinc phosphate processability	428/639	205/213; 427/406; 427/427; 427/436; 427/437; 428/614; 428/650; 428/658	Toyose; Kikurou et al.
US 5387091 A	19950207	Variable capacity type swash plate compressor	417/222.2	92/12.2	Kawaguchi; Masahiro et al.
US 5382139 A	19950117	Guiding mechanism for reciprocating piston of piston type compressor	417/269	91/499	Kawaguchi; Masahiro et al.
US 5366357 A	19941122	Scroll type compressor having a counterweight mounted with a clearance on a driveshaft	418/55.1	418/151; 418/55.5; 418/55.6; 418/57	Fukanuma; Tetsuhiko et al.
US 5364247 A	19941115	Sealing structure for scroll type compressor	418/55.2	418/142; 418/55.4	Fukanuma; Tetsuhiko et al.
US 5362218 A	19941108	Scroll type compressor with counterweight	418/55.5	418/151; 418/57	Fukanuma; Tetsuhiko et al.
US 5249943 A	19931005	Scroll type compressor having recessed buffer means in a spiral wrap flat face	418/55.2	418/189	Kuroki; Kazuhiro et al.
US 5244516 A	19930914	Aluminum alloy plate for discs with improved platability and process for producing the same	148/551	148/439; 148/552; 148/691; 428/846.7	Kawaguchi; Masahiro
US 5242283 A	19930907	Scroll type compressor with elongated discharge	418/55.2	418/183	Mori; Tatsushi et al.

		port			
US 5240392 A	19930831	Scroll type compressor with oil-separating plate in discharge chamber	418/55.6	418/100; 418/97; 418/DIG.1	Fukanuma; Tetsuhiko et al.
US 5222883 A	19930629	Scroll type compressor having the center of the cylindrical shell displaced for compactness	418/55.2		Fukanuma; Tetsuhiko et al.
US 5221198 A	19930622	Scroll type compressor with intake port aligned with counterweight	418/55.3	418/100; 418/151; 418/55.6	Izumi; Yuji et al.
US 5217358 A	19930608	Scroll type compressor with elongated discharging part	418/55.2	418/142; 418/55.4	Mori; Tatsushi et al.
US 5147192 A	19920915	Scroll-type fluid compressor with rotation preventing coupling members	418/55.3	418/55.6; 464/102; 464/103; 464/7	Suzuki; Shinichi et al.
US 5120205 A	19920609	Scroll type compressor with improved bearing arrangement for drive shaft	418/55.1	418/100; 418/55.6	Ban; Takashi et al.
US 5076771 A	19911231	Scroll type fluid compressor with lubricated spiral seal member	418/55.4	277/387; 277/399; 418/142; 418/55.6; 418/99	Ban; Takashi et al.
US 5059098 A	19911022	Apparatus for varying capacity of scroll type compressor	417/295	417/299; 417/310	Suzuki; Shinichi et al.
US 5032060 A	19910716	Continuously variable capacity swash plate type refrigerant compressor	417/222.1	417/269	Kobayashi; Hisao et al.
US 4934909 A	19900619	Scroll compressor with rotation preventing apparatus	418/55.3	418/55.6; 464/103; 464/15	Suzuki; Shinichi et al.
US	19890704	Variable	417/295	417/12;	Watanabe;

4844703 A		displacement vane compressor		417/310	Yasushi et al.
US 4842490 A	19890627	Variable displacement vane compressor	417/295	417/310	Watanabe; Yasushi et al.
US 4838740 A	19890613	Variable displacement vane compressor	417/295	417/310	Watanabe; Yasushi et al.
US 4808083 A	19890228	Variable capacity type vane compressor	417/295	417/310	Watanabe; Yasushi et al.
US 4631112 A	19861223	Surface-treated aluminum alloy substrates for magnetic disks	216/101	205/223; 216/22; 252/79.2	Usui; Eiki et al.
US 3774376 A	19731127	CENTRIFUGAL GAS SEPARATOR	55/407	494/14; 494/25; 494/60; 494/83; 494/900	Takashima; Yoichi et al.
US 3613989 A	19711019	GAS CENTRIFUGES, THEIR ASSEMBLY AND A PROCESS FOR ENRICHING URANIUM 235	494/2	494/14; 494/25; 494/32; 494/37; 494/42; 494/60; 494/83	Oyama; Yoshitoshi et al.
US 3501091 A	19700317	GAS CENTRIFUGE AND A PROCESS FOR CONCENTRATING COMPONENTS OF A GAS MIXTURE [TEXT AVAILABLE IN USOCR DATABASE]	494/25	494/14; 494/37; 494/61; 494/900	OYAMA YOSHITOSHI et al.